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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,600	11/12/2003	Yoshitaka Hamada	035576/271448	5854
826	7590 07/21/2006		EXAMINER	
ALSTON 8	& BIRD LLP	ZIMMER, MARC S		
	MERICA PLAZA TRYON STREET, SUIT	ART UNIT	PAPER NUMBER	
	TE, NC 28280-4000		1712	
			DATE MAIL ED: 07/21/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appl	ication No.	Applicant(s)					
			706,600	HAMADA ET AL.					
Office Action Summary		Exar	miner	Art Unit					
		Marc	S. Zimmer	1712					
Period fo	The MAILING DATE of this commun	nication appears o	on the cover sheet w	vith the correspondence ad	ldress				
A SHOWHIC - External after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insigns of time may be available under the provision: SIX (6) MONTHS from the mailing date of this come IN period for reply is specified above, the maximum sere to reply within the set or extended period for repleply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE C s of 37 CFR 1.138(a). In munication. tatutory period will apply y will, by statute, cause the	PF THIS COMMUN no event, however, may a and will expire SIX (6) MO he application to become a	IICATION. a reply be timely filed ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).					
Status				·					
1)[\inf	Responsive to communication(s) file	ed on <i>05 Mav 200</i>	06 .						
·	☐ This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠ Claim(s) <u>7-18</u> is/are pending in the application.									
-	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
· · · —	5)⊠ Claim(s) <u>7-18</u> is/are rejected.								
7)🖂	Claim(s) 7-18 is/are objected to.								
8)[Claim(s) are subject to restri	ction and/or elect	ion requirement.						
Applicati	on Papers								
9)□	The specification is objected to by the	ne Examiner.							
• — –	The drawing(s) filed on is/are		or b) ☐ objected to	by the Examiner.					
,	Applicant may not request that any obje		· · · · · · · · · · · · · · · · · · ·						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) 🗍	The oath or declaration is objected t	o by the Examine	er. Note the attache	ed Office Action or form P	ΓΟ-152.				
Priority u	ınder 35 U.S.C. § 119			•					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:									
-/.	1.⊠ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies	of the priority do	cuments have bee	n received in this National	Stage				
	application from the Internation	onal Bureau (PC1	Γ Rule 17.2(a)).						
* 5	See the attached detailed Office action	on for a list of the	certified copies no	ot received.					
Attachmen	t(s)		_						
	e of References Cited (PTO-892)	DTO OAR'		v Summary (PTO-413) o(s)/Mail Date					
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449 o r No(s)/Mail Date <u>12/20/05.05/05/06</u> .			f Informal Patent Application (PTC	O-152)				

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Claim Objections

Claims 7-18 are objected to because a variable "x" is defined beneath formulae (3) through (8) but that variable does not appear in any of these formulae. It is expected that "x" denotes the number of SiO₂ units as there is no subscript attached to that structural attribute in formula (8). Correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 7-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant has amended claim 7 at 5 lines from the end to stipulate that the variable "e" is an integer of between 1 and 10 to, ostensibly, overcome the Examiner's prior art rejection because original claims 7 and 8 had been deemed unpatentable where, among other things, "e" = 0. The Examiner reviewed the Specification for evidence that it had provided express support for the new endpoint but found none.

Applicant is reminded of the telephone discussions wherein the Examiner explained that, although this limitation was considered new matter, the added subject matter stipulating that at least one of "g", "h", "L", "m", "r", "t", "u", "v", "x", and "y" is not zero is acceptable.

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Therefore, it is recommended that Applicant simply amend the definition of "e" in the same manner.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 7 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 8 of copending Application No. 10/807494. Although the conflicting claims are not identical, they are not patentably distinct from each other. Close inspection shows that there is considerable overlap between the semiconductors of these claims, the main difference being that the present claims outline an alkaline or acidic condition under which hydrolysis/condensation is carried out. Other differences include the different, but largely overlapping, ranges associated with the numbers of structural units of each type in the formulae. These differences are attributed to Applicant's amendments in the present case to re-define "g", "h", "L", "m", "n", "t", "u", "v", "x", and "y".

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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All of the claims are allowable pending Applicant's acceptance of the proposed changes set forth herein and were Applicant to file a terminal disclaimer disclaiming any portion of the patent term of a patent having evolved from the aforementioned co-pending application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc S. Zimmer whose telephone number is 571-272-1096. The examiner can normally be reached on Monday-Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 19, 2006

MARC & ZIMMER PRIMARY EXAMINER